

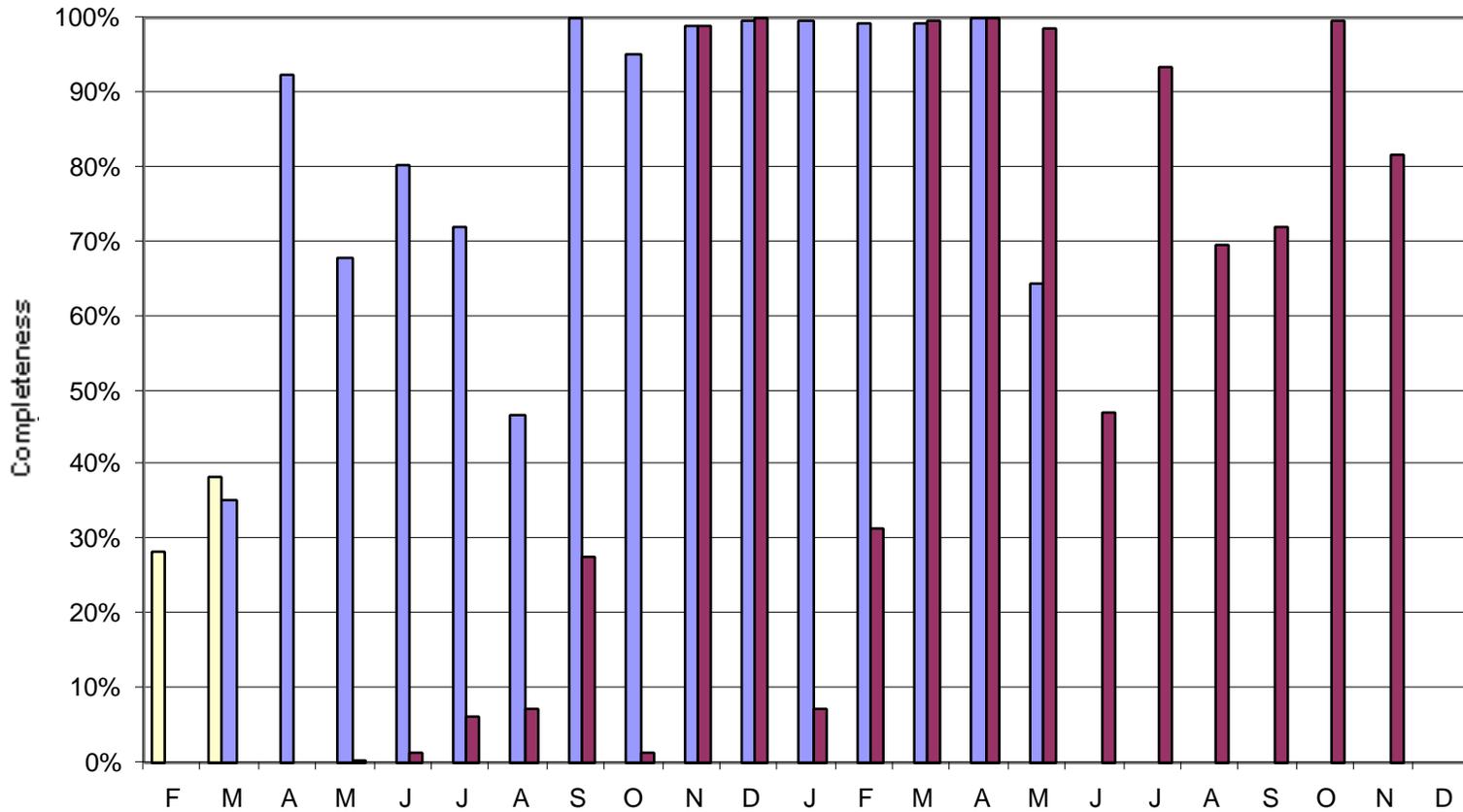
MODIS Science Team Meeting  
Atmospheres Discipline Breakout  
December 17, 2001

Status of MODIS Data Processing

Bill Ridgway  
SSAI / NASA GSFC

**Availability of MODIS Level 1B Data  
as of November 29, 2001 3:00PM**

February 24, 2000 - October 30, 2000 A-Side data  
 October 30, 2000 - June 15, 2001 B-Side data  
 July 2, 2001 - Present A-Side data

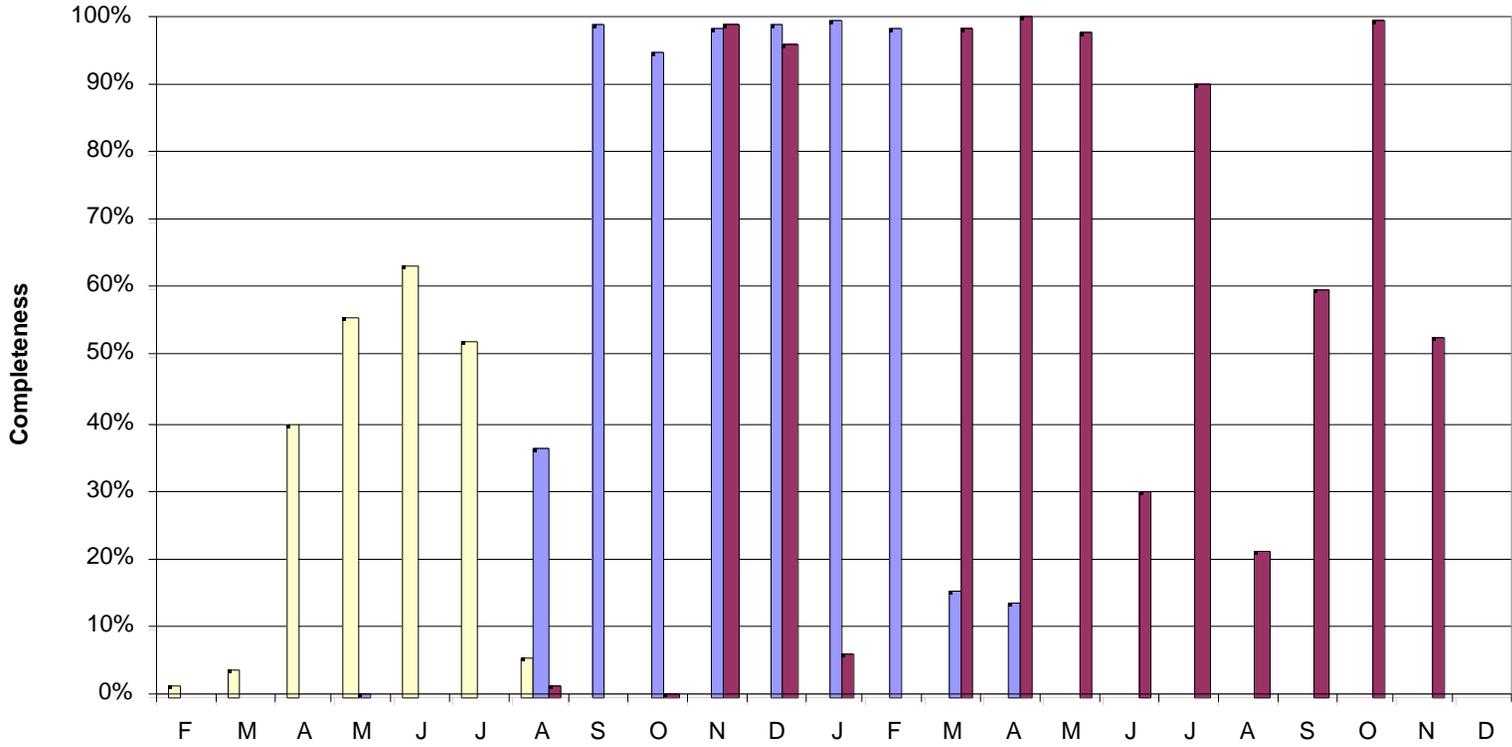


	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01
■ Ver 199	28.5%	38.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
■ Ver 001	0.0%	35.2%	92.6%	67.7%	80.4%	71.9%	46.8%	99.9%	95.3%	98.9%	99.6%	99.8%	99.1%	99.3%	100.0%	64.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
■ Ver 003	0.0%	0.0%	0.0%	0.2%	1.3%	6.1%	7.3%	27.8%	1.3%	99.1%	100.0%	7.1%	31.6%	99.7%	100.0%	98.7%	47.2%	93.5%	69.7%	72.1%	99.8%	81.6%	0.0%

Note: Version 199 data is not orderable by external customers.

**Amount of LIB data archived at the GES DAAC from February 2000 to November 2001.**

February 24, 2000 - October 30, 2000 A-Side data  
 October 30, 2000 - June 15, 2001 B-Side data  
 July 2, 2001 - Present A-Side data



	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01
Ver 199	1.6%	3.9%	40.0	55.6	63.7	52.5	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ver 001	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	36.3	99.1	95.1	98.5	99.2	99.3	98.5	15.7	13.8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ver 003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	0.6%	98.7	96.0	6.5%	0.0%	98.7	99.9	97.9	30.0	90.1	21.7	59.6	99.6	52.7	0.0%

Note: Version 199 data is not orderable by external customers.

**Availability of MODIS Level 2 Atmospheres Cloud Products as of November 29, 2001 3:00PM**

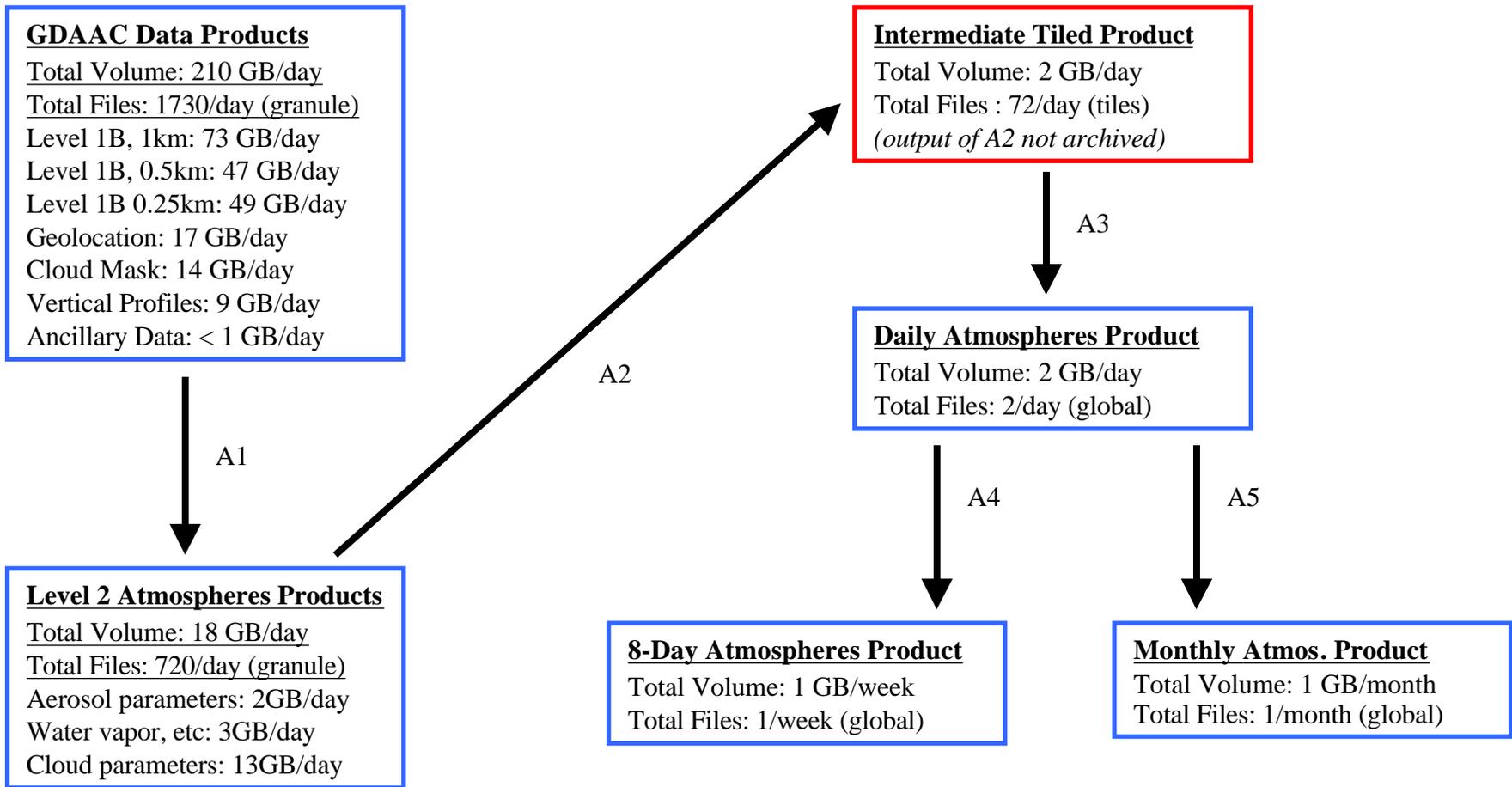
# MODIS Data Volume Summary (GB/day)

## Based on CPS (Current Product Set)

<u>Product Type</u>	<u>(1X)</u>	<u>(3X)</u>	<u>made</u>	<u>archived and/or shipped</u>
L0	70	70	EDOS	GES DAAC archive
L1A	110	330	GES DAAC	GES DAAC archive
L1 subsets	48	144	GES DAAC	(Langley & Miami)
L1B+	210	630	GES DAAC	MODAPS
L2/L3+	430	1290	MODAPS	3 DAAC's
<b>total</b>	<b>870</b>	<b>2470</b>	<b>(total archived, all levels, all DAAC's)</b>	
L2/L3 interim	378	1134	(QA and temporary products not archived)	

# Processing Challenges

- Product volume and algorithm complexity
- Coordinating processing among organizations
- Repairing production system flaws after software installs
- Limited redundancy in key processing components
- Difficulty in monitoring production, file transfer, and product archival across organizational boundaries
- Scheduling processing and reprocessing consistent with algorithm readiness and science requirements



**Atmospheres Processing Flow & Product Volumes**

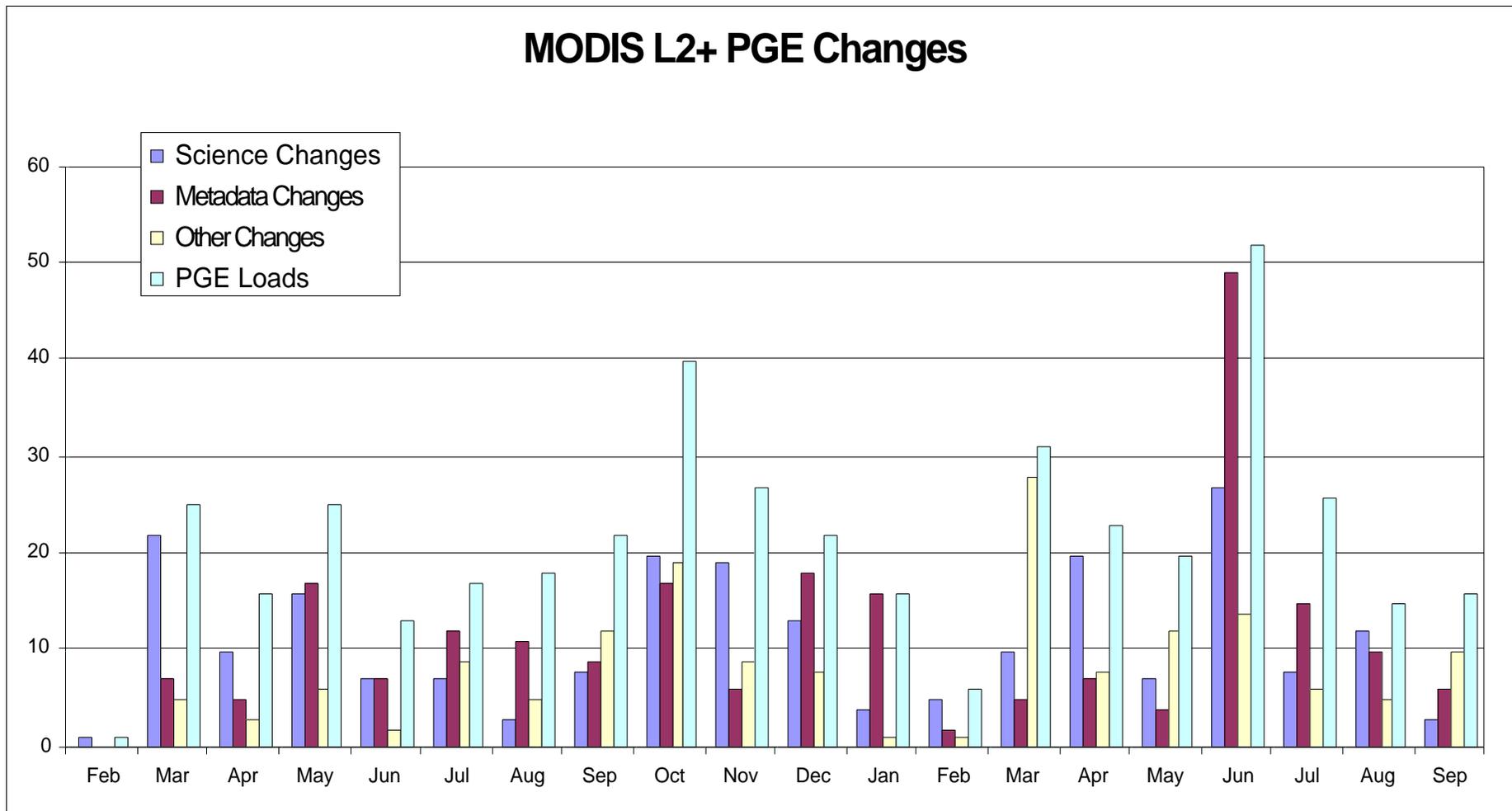
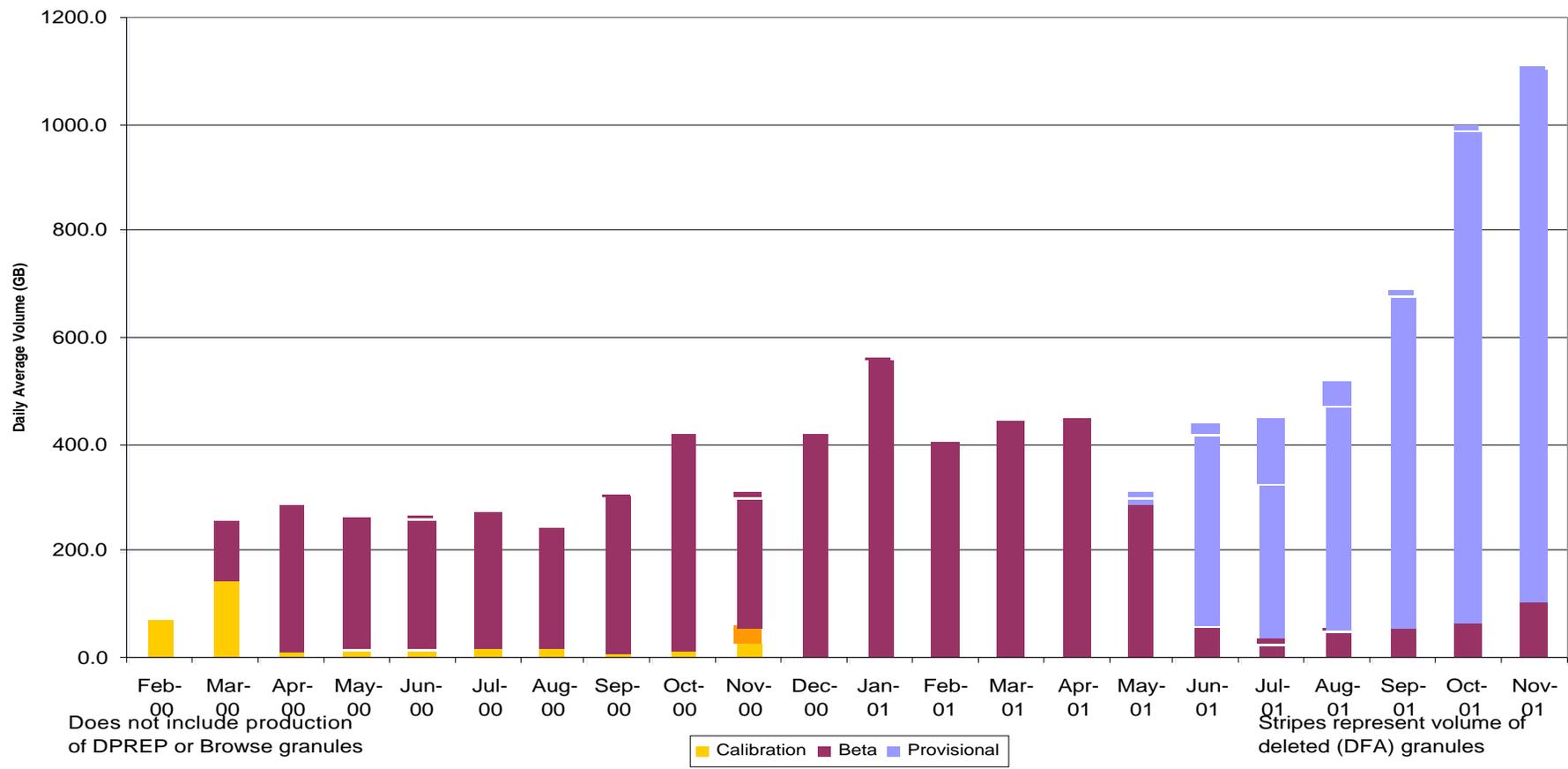
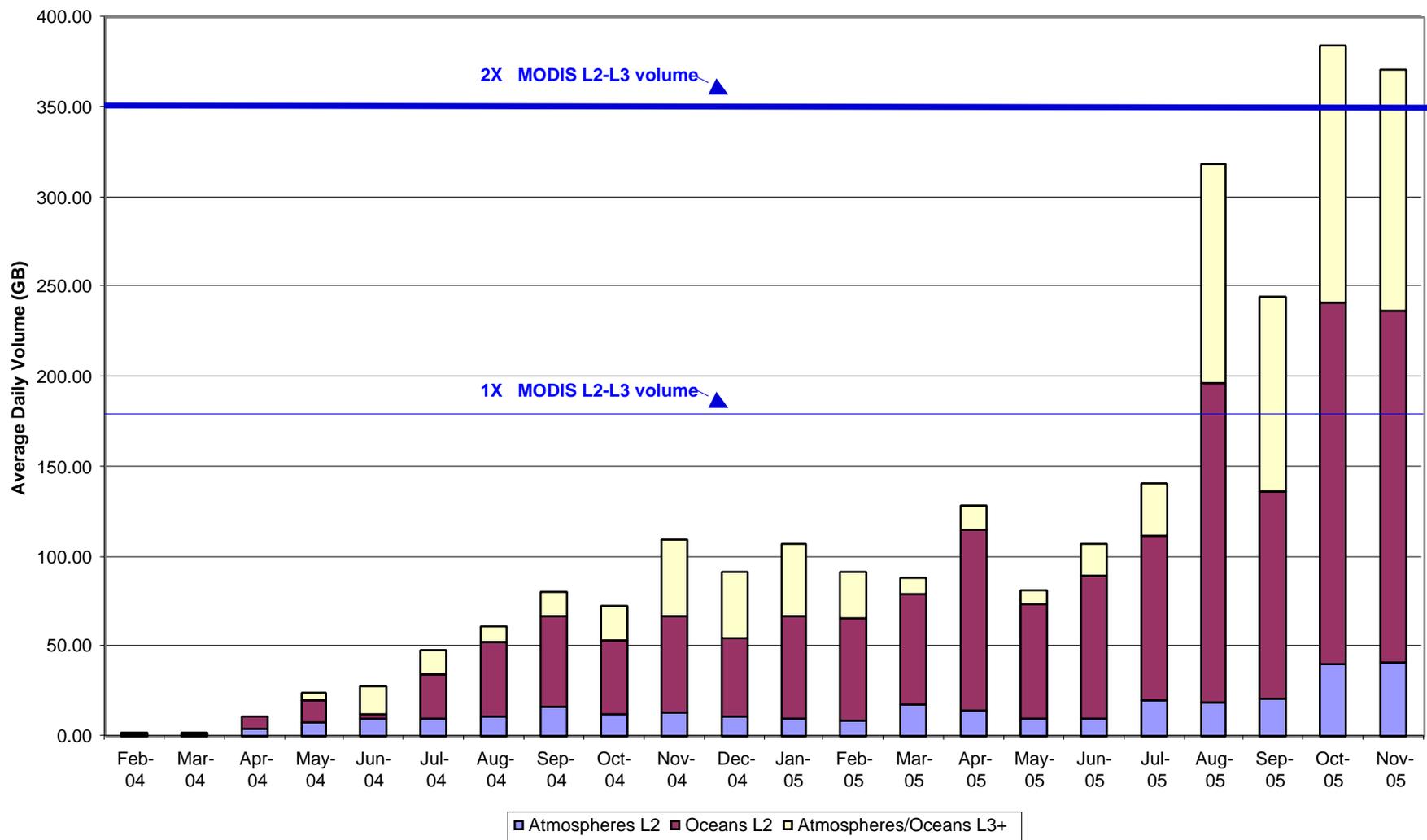


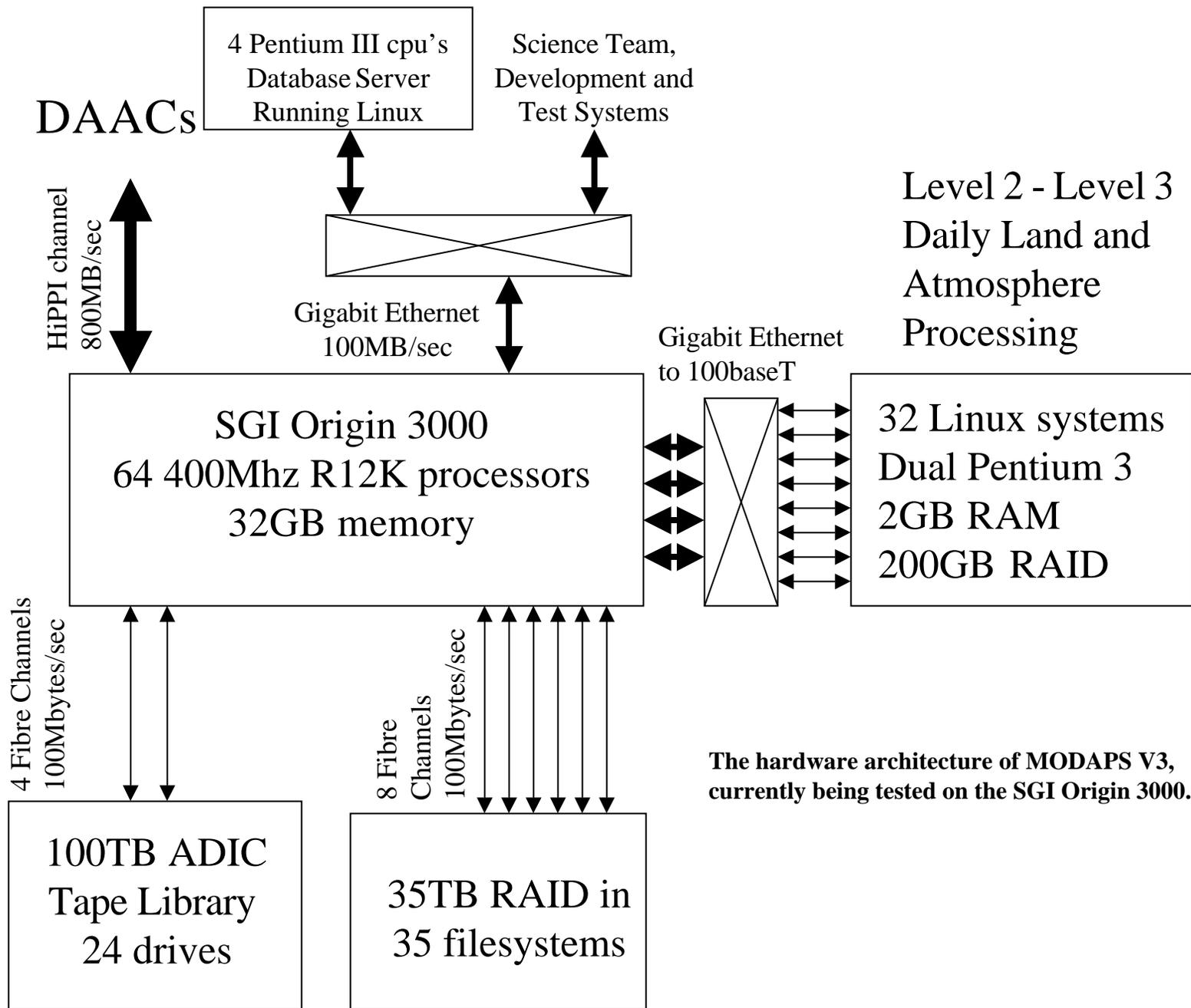
Figure 3. PGE changes by month to productions algorithms.



**GDAAC Production of MODIS Data Daily Average Volume by Month of Production February 2000 to November 2001**



**GDAAC Ingest of MODAPS Data February 2000 to November 2001.  
 Horizontal line illustrates the average daily volume based on the 1X of the  
 Current Product Set (CPS) volume.**



The hardware architecture of MODAPS V3, currently being tested on the SGI Origin 3000.